

national application No. PCT/JP03/16007

A. CLASS	SIFICATION OF SUBJECT MATTER .Cl ⁷ H05H1/46, H01L21/3065, H01	LL21/205, C23C14/54		
According t	to International Patent Classification (IPC) or to both na	ational classification and IPC		
B. FIELD	S SEARCHED			
Minimum d	ocumentation searched (classification system followed Cl ⁷ H05H1/46, H01L21/3065, H01	by classification symbols) LL21/205, C23C14/54, C23	3C16/511	
			<u>.</u>	
Jits	tion searched other than minimum documentation to the uyo Shinan Koho 1940–1996 i Jitsuyo Shinan Koho 1971–2004	Toroku Jitsuyo Shinan Koho	o 1994–2004	
Electronic d	lata base consulted during the international search (nam	e of data base and, where practicable, sear	rch terms used)	
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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap		Relevant to claim No.	
X	JP 2001-35697 A (Japan Scien Corp.), 09 February, 2001 (09.02.01),	,	1-3,11-14, 16,23-26, 32-34,36,37	
<u>Y</u>	Par. Nos. [0008] to [0039], Figs. 1, 3, 9 to 11 (Family: none)	[UU47] to [UU5U];	<u>1–37</u>	
Y	JP 2000-3878 A (Mitsubishi H	leavy Industries,	3-6	
	Ltd.), 07 January, 2000 (07.01.00), Par. Nos. [0057] to [0063]; E & US 6353201 B1	Fig. 1		
Y	JP 8-8096 A (The Power-Gass 12 January, 1996 (12.01.96), Par. No. [0028]	Corp.),	3,5,6	
		689226 Al		
× Furth	er documents are listed in the continuation of Box C.	See patent family annex.		
* Special categories of cited documents: "A" later document published after the international filing date or priority date and not in conflict with the application but cited to			mational filing date or ne application but cited to	
considered to be of particular relevance understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot understand the principle or theory underlying the invention cannot understand the principle or theory underlying the invention and document of particular relevance; the claimed invention cannot understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot understand the principle or the claimed invention and the principle or the claimed invention cannot understand the claimed invention cannot understand the claimed inventi			erlying the invention claimed invention cannot be	
"L" date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other "		step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be		
"O" docum	reason (as specified) ent referring to an oral disclosure, use, exhibition or other	considered to involve an inventive ster	documents, such	
	ent published prior to the international filing date but later the priority date claimed	"&" document member of the same patent	family	
	actual completion of the international search (arch, 2004 (09.03.04)	Date of mailing of the international search, 2004 (23.	ch report 03.04)	
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International application No.
PCT/JP03/16007

C (Commun	ntion). DOCUMENTS CONSIDERED TO BE RELEVANT	***
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
У	JP 8-325759 A (Anelva Corp.), 10 December, 1996 (10.12.96), Par. Nos. [0007] to [0009], [0034] to [0035], [0041]; Figs. 1 to 3 (Family: none)	5-7,27,28
Y	JP 2000-73174 A (Mitsubishi Heavy Industries, Ltd.), 07 March, 2000 (07.03.00), Par. No. [0019]; Fig. 2 (Family: none)	4
Y	JP 2002-260899 A (Nihon Koshuha Co., Ltd.), 13 September, 2002 (13.09.02), Par. Nos. [0005], [0014] to [0024]; Figs. 1 to 5 (Family: none)	13-16,25,28, 34
Y	JP 2001-274099 A (Mitsubishi Heavy Industries, Ltd.), 05 October, 2001 (05.10.01), Full text; all drawings & US 2001-21422 A1	18-19,22,35
Y	JP 11-233289 A (President of Nagoya University), 27 August, 1999 (27.08.99), Par. Nos. [0017] to [0040]; Figs. 1 to 8 (Family: none)	18,20,23,24, 34-37
E,X	JP 2004-39719 A (Japan Science and Technology Corp.), 05 February, 2004 (05.02.04), Full text; all drawings (Family: none)	1-37
P,X	JP 2003-109798 A (Ishikawajima-Harima Heavy Industries Co., Ltd.), 11 April, 2003 (11.04.03), Full text; all drawings (Family: none)	1,2,7,26,28
A	JP 2000-345351 A (Anelva Corp.), 12 December, 2000 (12.12.00), Full text; all drawings (Family: none)	1-37
P,A	JP 2003-31504 A (Sharp Corp.), 31 January, 2003 (31.01.03), Full text; all drawings (Family: none)	1-37